

WHAT IS CLAIMED IS:

1. An electrostatic charge image developing developer, comprising:

a carrier; and

5 an electrostatic charge image developing toner including a fixing resin and a hydrocarbon wax whose crystallinity is less than 93 %, the electrostatic charge image developing toner being mixed into the carrier;

10 wherein an amount of maximum change in a quantity of charge of the electrostatic charge image developing toner is smaller than 20  $\mu\text{C/g}$ , and an amount of contamination of a carrier due to the electrostatic charge image developing toner is less than 0.4 wt%, when the electrostatic charge image developing developer is stirred for 24 hours at an atmospheric temperature that is lower than a glass transition point of the toner and is higher than 45 °C.

2. The electrostatic charge image developing developer according to claim 1,

20 wherein a melting point of the hydrocarbon wax, which is defined as a maximum peak of the absorbed heat quantity curve at a time of temperature rise, is set in a range of 50 °C to 120 °C in a DSC curve measured by the differential scanning calorimeter.

3. The electrostatic charge image developing developer according to claim 1, wherein the toner contains at least a vinyl copolymer, which is polymerized in existence of the hydrocarbon wax, as the fixing resin.

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4. An image forming apparatus comprising:

an electrostatic charge bearing member that bears an electrostatic charge latent image thereon;

a developing unit for supplying an electrostatic charge image developing developer to the electrostatic charge bearing member to visualize the electrostatic charge latent image as a toner image;

a transferring unit for transferring the toner image formed on the electrostatic charge bearing member onto a recording medium; and

a fixing unit for fixing the toner image onto the recording medium by applying at least a heat to the recording medium that bears the toner image;

wherein the electrostatic charge image developing developer is formed by mixing an electrostatic charge image developing toner that contains at least a fixing resin and a hydrocarbon wax whose crystallinity is less than 93 % into a carrier;

when the electrostatic charge image developing developer is stirred for 24 hours at an atmospheric temperature that is

lower than a glass transition point of the toner and is higher  
than 45 °C, an amount of maximum change in a quantity of charge  
of the electrostatic charge image developing toner is smaller  
than 20  $\mu$ C/g and an amount of contamination of the carrier due  
5 to the electrostatic charge image developing toner less than  
0.4 wt%.

5. The image forming apparatus according to claim 4,  
wherein the fixing unit is a contact-type thermal fixing  
10 unit.